

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/003518

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/498 A61K31/55 A61K45/06 A61P25/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, PAJ, BIOSIS, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 200066 Derwent Publications Ltd., London, GB; Class B05, AN 2000-673134 XP002291965 & CN 1 265 889 A (WANG X) 13 September 2000 (2000-09-13) abstract	1-3,8-13
X	ERNST MUTSCHLER: "Arzneimittelwirkungen - Lehrbuch der Pharmakologie und Toxikologie" 1997, WISSENSCHAFTLICHE VERLAGSGESELLSCHAFT MBH STUTTGART, STUTTGART, XP002291963 page 252 - page 260 in particular p. 260 ----- -/--	1-3,8-13

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

16 August 2004

Date of mailing of the international search report

06/09/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MARK H. BEERS, M.D., ROBERT BERKOW, M.D.: "The Merck Manual" 1999, MERCK RESEARCH LABORATORIES, WHITEHOUSE STATION, N.J., XP002291964 page 1406 - page 1408	1-4,8-13
X	DAM M: "SUMMING UP OF THE SUCCESS SO FAR GAINED THROUGH CHOICE OF DRUGS OR COMBINATIONS OF DRUGS" ACTA NEUROLOGICA SCANDINAVICA SUPPLEMENTUM, vol. 69, no. 99, 1984, pages 19-22, XP009035076 & 3RD WORKSHOP ON MEMORY FUNCTIONS, GOTHENBURG, FEB. 4-6, 1983. ACTA NEUROL SCAND SUPPL. ISSN: 0065-1427 page 19	1-3,8-13
X	US 5 095 033 A (LEVY RENE H ET AL) 10 March 1992 (1992-03-10) column 1, line 39 - column 2, line 34 claims	1-3,8-13
X	WO 89/05642 A (FERKANY JOHN W ; PONTECORVO MICHAEL J (US)) 29 June 1989 (1989-06-29) page 6, last paragraph - page 7, paragraph 1 page 8 claims	1-3,8-13
X	GB 864 536 A (SAPOS S A LAB) 6 April 1961 (1961-04-06) page 2, left-hand column claims 2,3	1,2,8-13
X	US 3 489 836 A (WARING WILSON SHAW) 13 January 1970 (1970-01-13) abstract column 3, line 56 - line 59	1,2,8-13
X	EP 0 637 449 A (SIGMA TAU IND FARMACEUTI) 8 February 1995 (1995-02-08) abstract column 3, line 25 - line 33	1,2,8-13
X	WO 01/39779 A (LAMBERTY YVES ; MATAGNE ALAIN (BE); UCB SA (BE); WAEGEMANS TONY (BE);) 7 June 2001 (2001-06-07) page 11, line 26 - page 12, line 23 page 15, line 29 - page 16, line 20 claims	1-3,8-13

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DECKERS C L P ET AL: "Selection of antiepileptic drug polytherapy based on mechanisms of action: The evidence reviewed" EPILEPSIA 2000 UNITED STATES, vol. 41, no. 11, 2000, pages 1364-1374, XP009035157 ISSN: 0013-9580	1-4,8-13
A	the whole document	5-7
X	ZARNOWSKI TOMASZ ET AL: "NBQX: A selective AMPA antagonist enhances antiepileptic properties of common anticonvulsant drugs against maximal electroshock in mice" POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, vol. 44, no. SUPPL., 1992, pages 258-259, XP009035158 & XI CONGRESS OF THE POLISH PHARMACOLOGICAL SOCIETY AND OF THE GERMAN SOCIETY OF PHARMACOLOGY AND TOXI; GDANSK, POLAND; SEPTEMBER 16-19, 1992 ISSN: 0301-0244	1-4,8-13
A	the whole document	5-7
X	BOROWICZ KINGA K ET AL: "Interaction of GYKI 52466, a selective non-competitive antagonist of AMPA/kainate receptors, with conventional antiepileptic drugs in amygdala-kindled seizures in rats" POLISH JOURNAL OF PHARMACOLOGY, vol. 53, no. 2, March 2001 (2001-03), pages 101-108, XP009035159 ISSN: 1230-6002	1-4,8-13
A	the whole document	5-7
X	BOROWICZ KINGA K ET AL: "The non-competitive AMPA/kainate receptor antagonist, GYKI 52466, potentiates the anticonvulsant activity of conventional antiepileptics" EUROPEAN JOURNAL OF PHARMACOLOGY, vol. 281, no. 3, 1995, pages 319-326, XP002292362 ISSN: 0014-2999	1-4,8-13
A	the whole document	5-7
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SWIADER MARIUSZ ET AL: "Influence of LY 300164, an AMPA/kainate receptor antagonist upon the anticonvulsant action of antiepileptic drugs against aminophylline-induced seizures in mice." POLISH JOURNAL OF PHARMACOLOGY, vol. 55, no. 1, January 2003 (2003-01), pages 103-107, XP009035160 ISSN: 1230-6002	1-4,8-13
A	the whole document	5-7
X	CZUCZWAR S J ET AL: "LY 300164, a novel antagonist of AMPA/kainate receptors, potentiates the anticonvulsive activity of antiepileptic drugs" EUROPEAN JOURNAL OF PHARMACOLOGY 1998 NETHERLANDS, vol. 359, no. 2-3, 1998, pages 103-109, XP002292363 ISSN: 0014-2999	1-4,8-13
A	abstract	5-7
X	WO 02/03915 A (KOZACHUK WALTER E) 17 January 2002 (2002-01-17) the whole document	1-4,8-13
A	WO 98/17692 A (HLYNIANSKI DANIEL RICHARD ; UNIV WALES BANGOR (GB)) 30 April 1998 (1998-04-30) cited in the application the whole document	
A	AUBERSON Y P ET AL: "N-phosphonoalkyl-5-aminomethylquinoxaline -2,3-diones: in vivo active AMPA and NMDA(glycine) antagonists" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 9, no. 2, 18 January 1999 (1999-01-18), pages 249-254, XP004152611 ISSN: 0960-894X page 249	
P,X	WO 03/042182 A (NOVARTIS PHARMA GMBH ; NOVARTIS AG (CH); SCHMUTZ MARKUS (CH)) 22 May 2003 (2003-05-22) the whole document	1-3,6-13

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/003518

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claim 9 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/003518

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
CN 1265889	A	13-09-2000	NONE	
US 5095033	A	10-03-1992	EP 0501889 A2	02-09-1992
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